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SOURCE Elektricheskiye Stantsii, No 4, 1950.

NEW SOVIET BOOKS ON POWER ENGINEERING

1. Design and Construction of Electric Measuring Instruments (Raschet i konstruktsii elektroizmeritel'nykh priborov), V. O. Artyunov, Moscow-Leningrad, Gosenergoizdat, 1949, 524 pp, 19 rubles 25 kopeks.

Examines problems of the theory and design of electric measuring instruments and gives main constructions of instruments and their components. General properties of electric measuring instruments, errors, construction and design of general elements of instruments. General design procedure, magnetoelectric instruments and instuments with converters; electrodynamic, electromagnetic, induction and electrostatic instruments.

2. Automatization of Hydroelectric Power Stations (Avtomatizatsiya gidroelektrostantsii), V. F. Balakirev, Moscow-Leningrad, Gosenergoizdat, 1949, 183 pp, 10 rubles.

Discusses problems of hydroelectric power station automatization. Gives analysis of processes of controlling hydroelectric units and general station equipment of hydroelectric power stations from the automatization standpoint. Gives analysis of designs of automatic apparatus and recommendations for setting, testing and operating automatic installations. Book is intended for specialists engaged in planning, building and operating automatic devices.

3. Application of the Theory of Similarity and Physical Modelling in Electrical Engineering (Primeneniye teorii podobiya i fizicheskogo modelirovaniya v elektrotekhnike, V. A. Venikov, Moscow-Leningrad, Gosenergoizdat, 1949, 167 pp, 9 rubles.

Indicates ways of using theory of similarity and modelling in electrical engineering. Theoretical principles of study of similarity, formulated as theorems, are illustrated by examples showing practical possibilities. Examines problems of similarity and modelling power systems in detail. Gives theory and procedure for constructing models with rotating machines.

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ARMY	X	AIR	X	FBI											

4. Theoretical Principles of Automatic Regulation of Heat Processes (Teoreticheskiye osnovy avtomaticheskogo regulirovaniya teplovykh protsessov), S. G. Gerasimov, Moscow-Leningrad, Gosenergoizdat, 1949, 327 pp, 18 rubles 50 kopeks.

Examines basic aspects of the theory of automatic regulation of heat engineering processes. Gives procedure for approximate calculation of a regulation process. Principal regulation schemes for boiler units and pulverizers are included.

5. Production of Oil-Filled Leads-In for 110, 154 and 220 kv (Proizvodstvo maslonapolnennykh vvodov na 110,154 i 220 kv), I.A. Glozman, Moscow-Leningrad, Gosenergoizdat, 1948, 95 pp, 5 rubles.

Revised and enlarged edition of "Assembly of 110- and 220-kv Oil-Filled Bushings" by the same author. Most of the additional material consists of descriptions of new lead-in designs. Gives detailed account of process of producing leads-in for workers in insulator plants and power system equipment repair shops. Sketches and specifications of parts are given in appendix.

6. Technico-Economic Indices of Steam Electric Power Stations (Tekhniko-ekonomicheskiye pokazateli teplovykh elektricheskikh stantsii), A.S. Gorshkov, Moscow-Leningrad, Gosenergoizdat, 1949, 287 pp, 27 rubles.

Gives concrete directions for working out progressive norms for technico-economic indices of individual units, main shops, and stations on the basis of leading operational experience. It explains how to study the fulfillment of the given norms and assess their fulfillment during variations in the conditions of work of the station. Methods of normalizing the indices are given in concrete examples. Indicates ways to improve economics of technological processes and normal conditions of work on electrical equipment.

7. Operation of Water-Discharge and Water-Intake Support Installations of Hydroelectric Power Stations (Eksploatatsiya podpornykh vodosbrosnykh i vodopriyemnykh sooruzheniy gidroelektrostantsii), G.M. Gol'denberg, Moscow-Leningrad, Gosenergoizdat, 1949, 147 pp, 7 rubles.

Examines main problems of operation of subject installations hydroelectric stations; main difficulties in their operaton; alterations in the habits of rivers caused by the erection of support installations. Putting support installations into operation, their work and maintance.

8. Equipment and Operation of High Voltage Overhead Transmission Lines (Sooruzheniye i eksploatatsiya vysokovol'tnykh vozdushnykh liniy elektroperedachi), G.S. Dutkin and A. Ya. Liberman, Moscow-Leningrad, Gosenergoizdat, 1949, 416 pp, 12 rubles.

Gives basic information on fitting and operating overhead transmission lines, technical requirements, work methods, information on materials and instruments, line operating conditions, brief information on the organization of work and the main principles of accident prevention.

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